

PARTS CATALOG

FOR

ONAN

INDUSTRIAL ENGINES

Two Cylinder, Air Cooled

Models

CK-S/35G
CK-S/35H
CK-S/35J
CK-S/35K
CK-S/259K
CK-S/259M
CK-S/259N

PARTS AVAILABILITY
NO LONGER GUARANTEED



DIVISION OF STUDEBAKER-PACKARD CORPORATION
MINNEAPOLIS 14, MINNESOTA

910-1029

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INTRODUCTION

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This is a composite parts list for ONAN CK Series industrial engines of the specific models shown in the Identification Table below. These engines serve as power for welders.

Engineering design changes by the manufacturer are indicated by an advance in the model specification (SPEC.).

Engines are listed in the following Identification Table by MODEL and SPEC. in the order in which they were manufactured. With each model is a brief resume of the reason for advancing the SPEC. The last column contains reference letters for use in identifying the correct column for each MODEL when selecting parts from the Parts List. Compare the MODEL and SPEC. which appear on the engine nameplate with this table.

IDENTIFICATION TABLE

MODEL NO. AND /SPEC. NO.	REASON FOR CHANGE (General)	APPLICABLE QTY. USED COLUMN
CK-S/35G	Original Design, incorporating: Variable Speed Governor; Fuel Filter; Tapered End on Crank-shaft; 4 Quart Capacity Base; and Special Paint on Muffler.	G
CK-S/35H	Single 12 Volt Ignition Coil changed to: two 6 Volt "Autolite" coils installed in the Blower Housing. New adjustable quadrant on Variable Speed Control.	H
CK-S/35J	Changed to: Permatrol Pistons having split skirt and taking Connecting Rod with wider Pin Boss; New Ignition Breaker Box incorporating a Diaphragm on the Breaker Plunger; Forged Governor Yoke.	J
CK-S/35K	Changed to: Cast Iron Magneto Flywheel having Rope Sheave removable; New Magneto having Coil removable; 3 MFD Ignition Condenser; Molded Rubber Carburetor Air Inlet; Beginning with Serial No. 458109, New Fuel Pump having Priming Lever.	K
CK-S/259K	Added: Vacuum Speed-Booster; Throttle Lock. Larger Valve Compartment; Eliminated Gasket Under Exhaust Valve Guide.	L
CK-S/259M	Location of Governor Cup Stop Pin Changed from Cup to Gear Cover. Breather Cap Clamp Deleted.	M
CK-S/259N	Change to: Air Cleaner with Rain Shield & Metal Cup; Oil Intake Cup with 1/4" pipe thrd; Oil Base with Fill Cap and Dip Stick; New Relief Valve.	N

Parts are illustrated in groups and have referenced arrows which compare with the reference numbers in the parts list for that group. Common hardware parts such as screws, washers and nuts which are usually available locally, are not listed.

Characteristics peculiar to these engines are: Crankshaft with tapered power take-off; Four U.S. quart capacity oil base with four point mounting; Fuel filter at carburetor; Mounted fuel tank (furnished as a separate item); Variable-speed governor control; Speed adjusted at 3100 rpm no load for WELDING operation; Ignition timed at 19° B.T.C. spark advance; Plastic shield on face of oil gauge; Special paint on muffler.

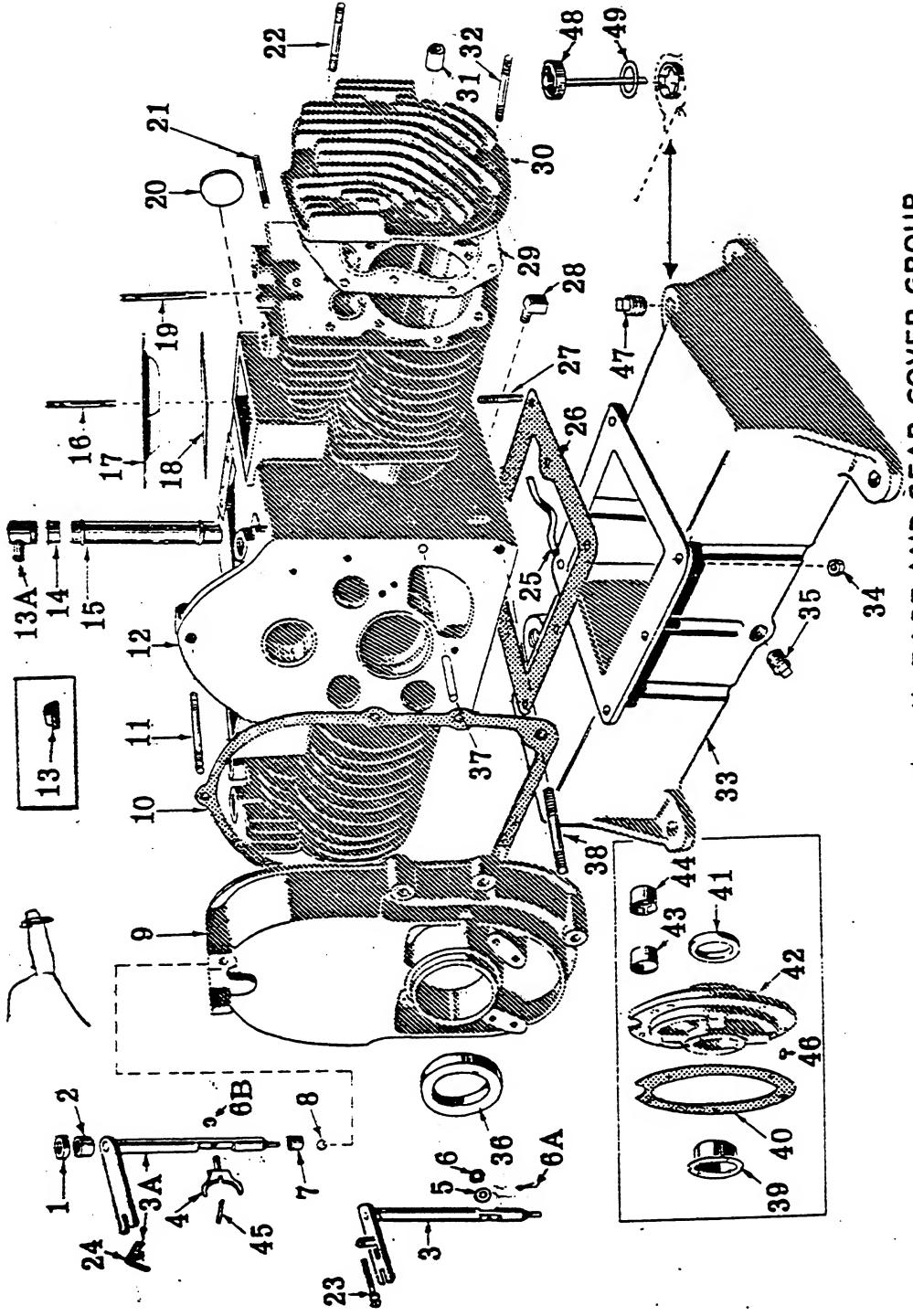


FIG. A-CYL., BLOCK, OIL BASE AND GEAR COVER GROUP

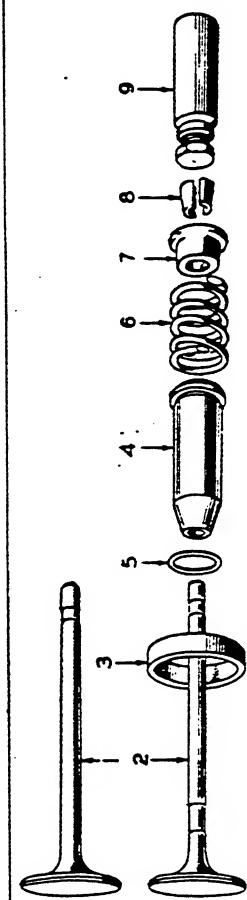


FIG. B-VALVE GROUP

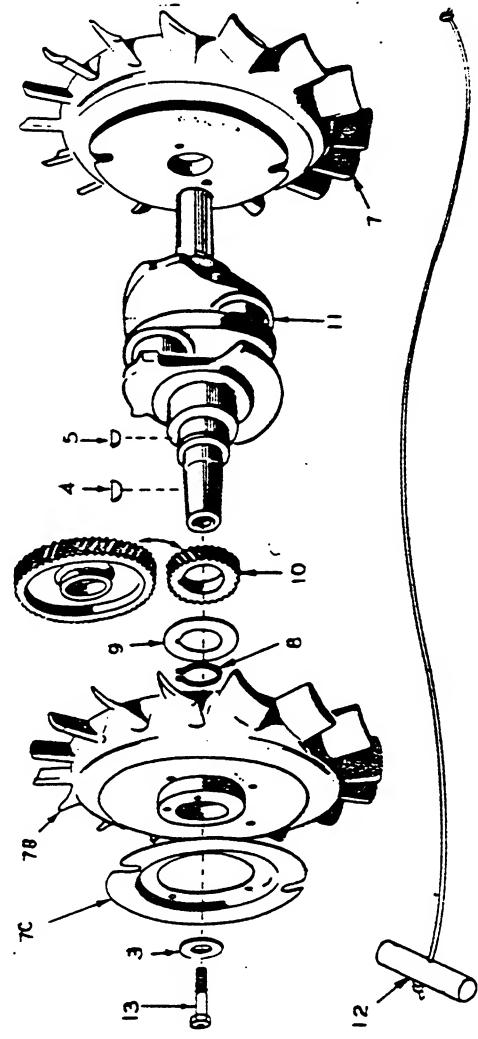


FIG. C-CRANK SHAFT AND FLYWHEEL GROUP

FIG. D- CAMSHAFT GROUP

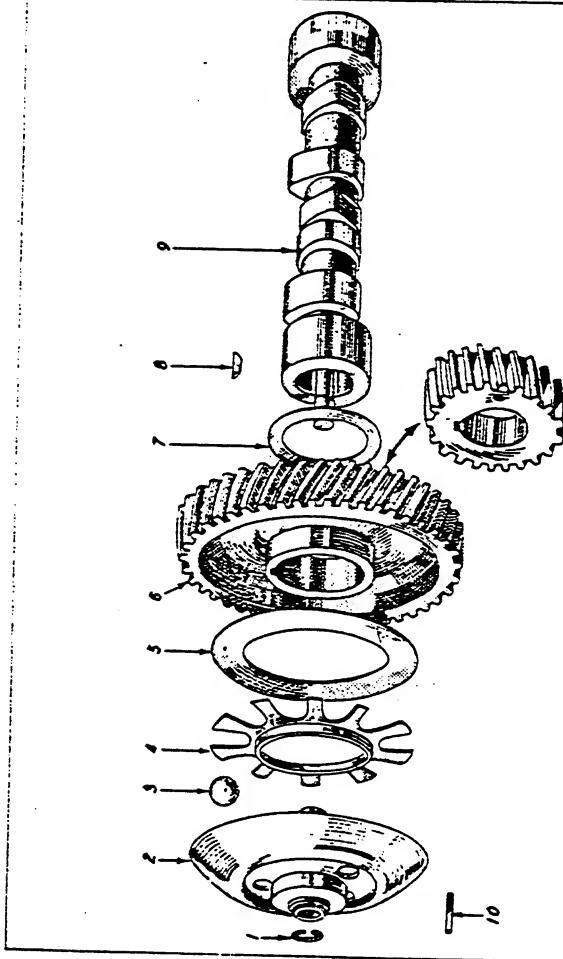
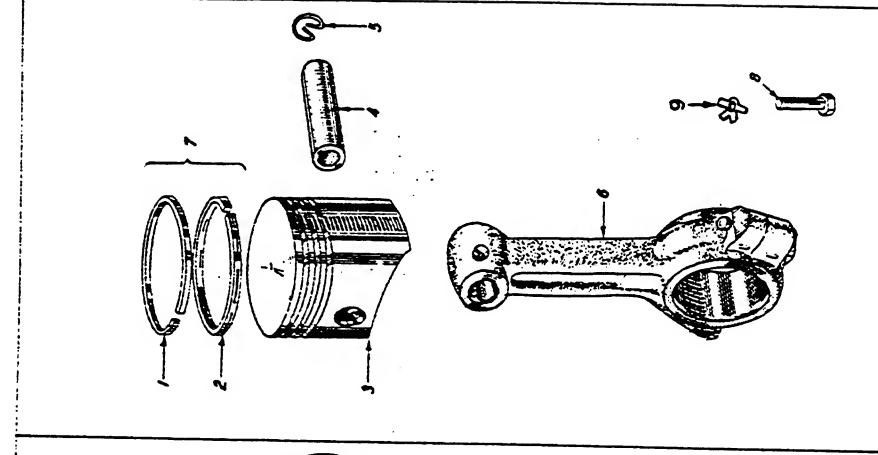


FIG. E.- PISTON AND
CONNECTING ROD GROUP



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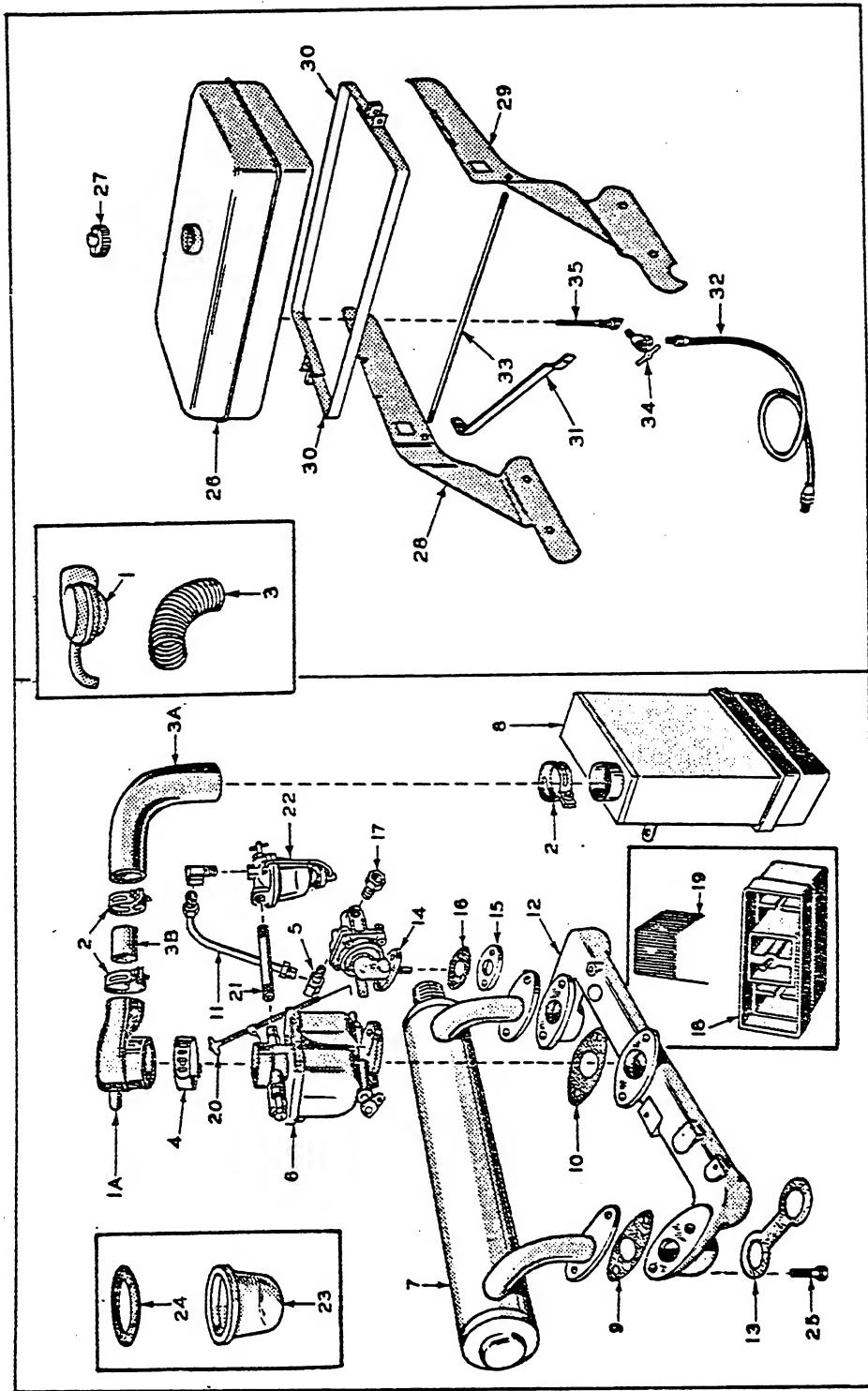


FIG. F - FUEL SYSTEM GROUP

FIG.K-FUEL PUMP GROUP

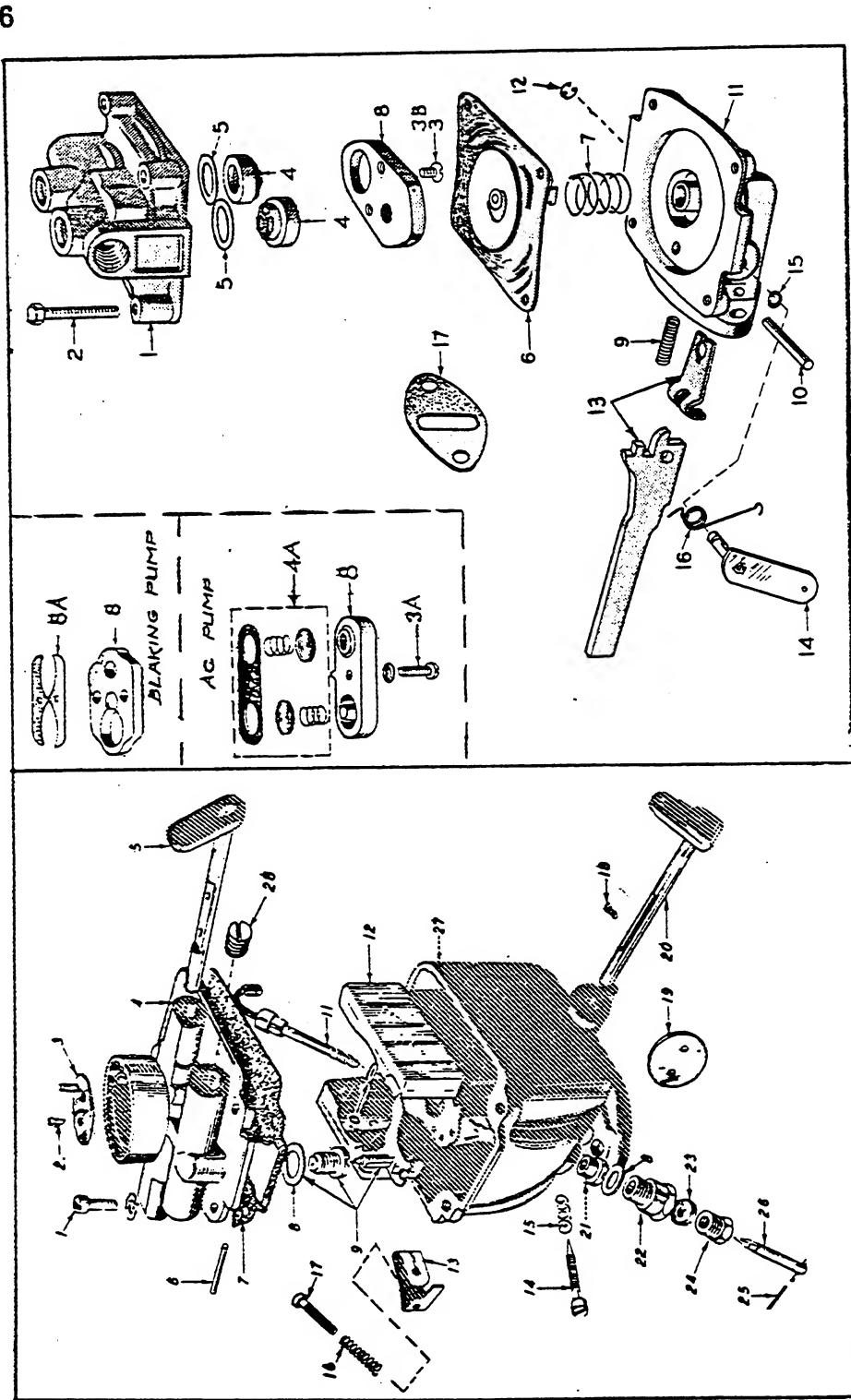


FIG.G-CARBURETOR PARTS GROUP

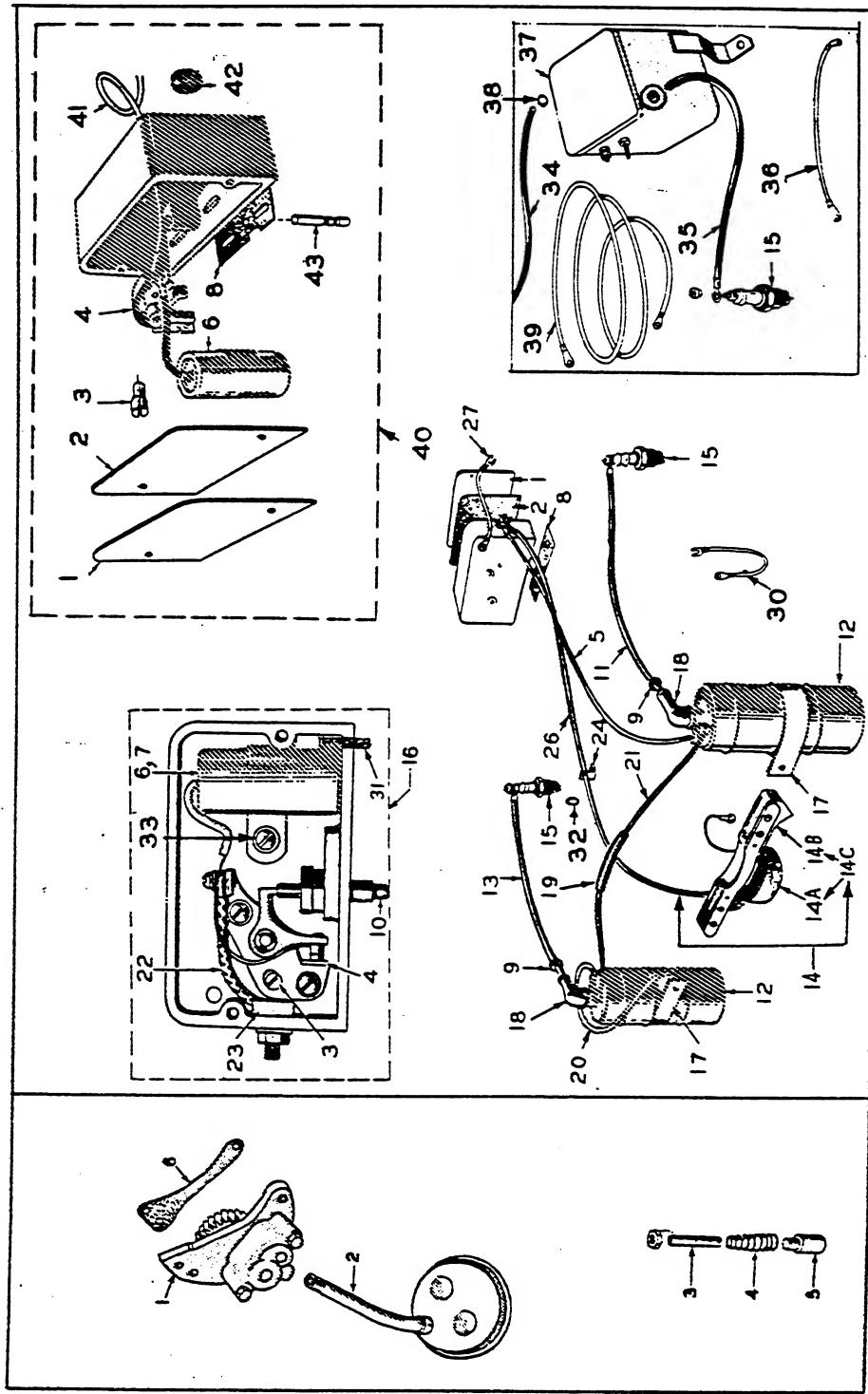


FIG.N-OIL PUMP GROUP

FIG.Q-VARIABLE SPEED GOVERNOR GROUP

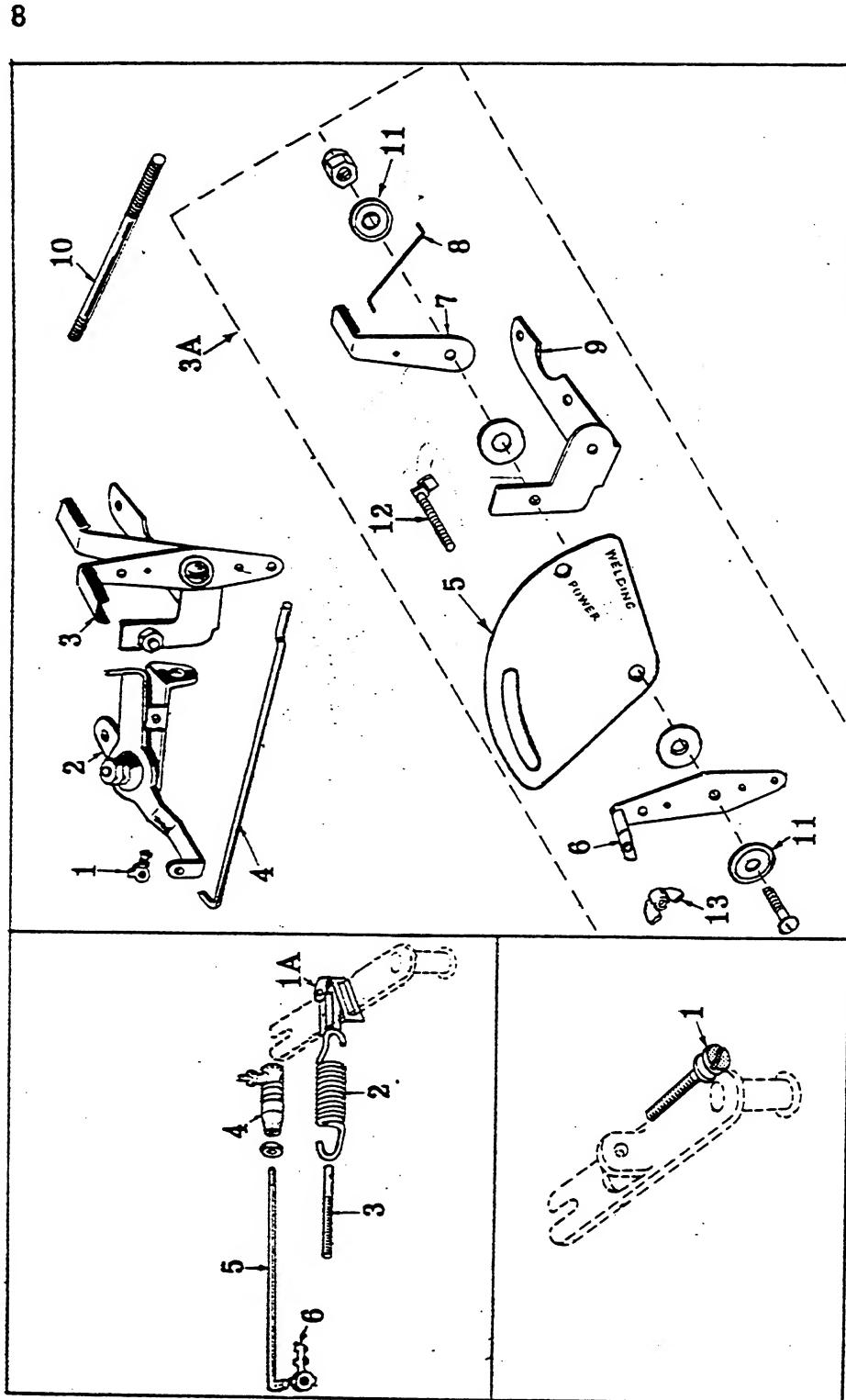


FIG.P-GOVERNOR GROUP

FIG. S - VACUUM SPEED-BOOSTER GROUP

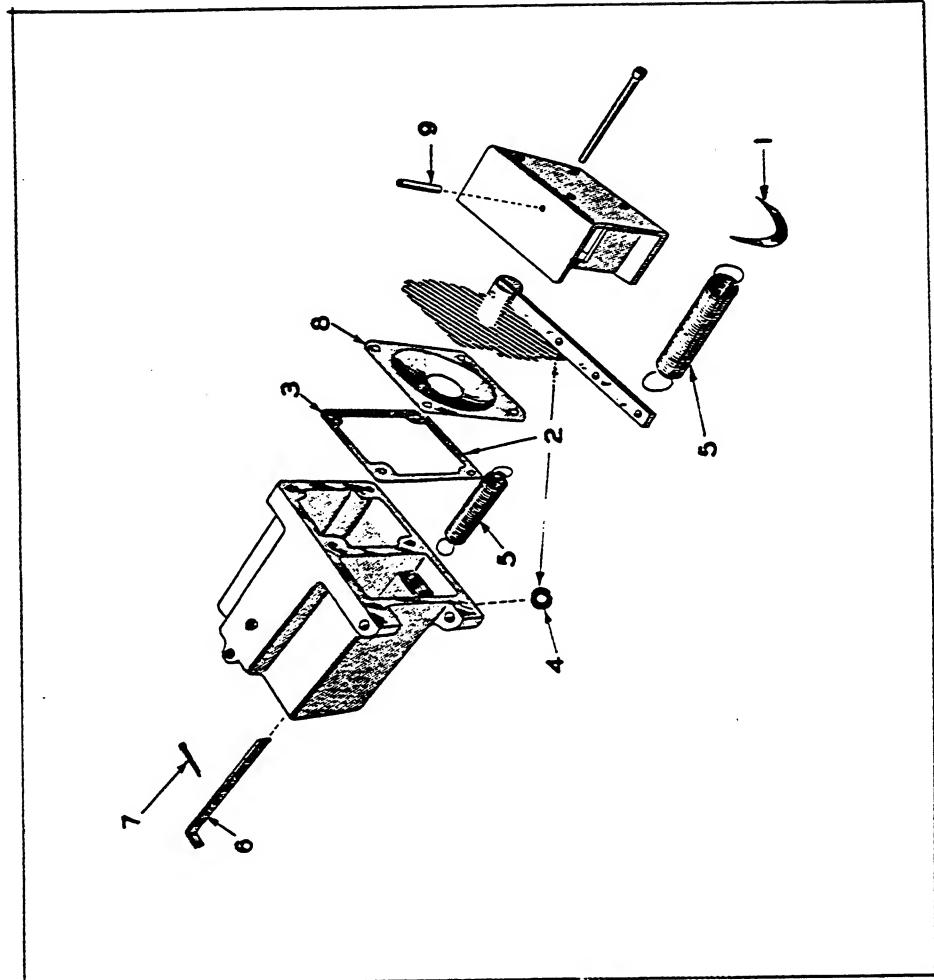
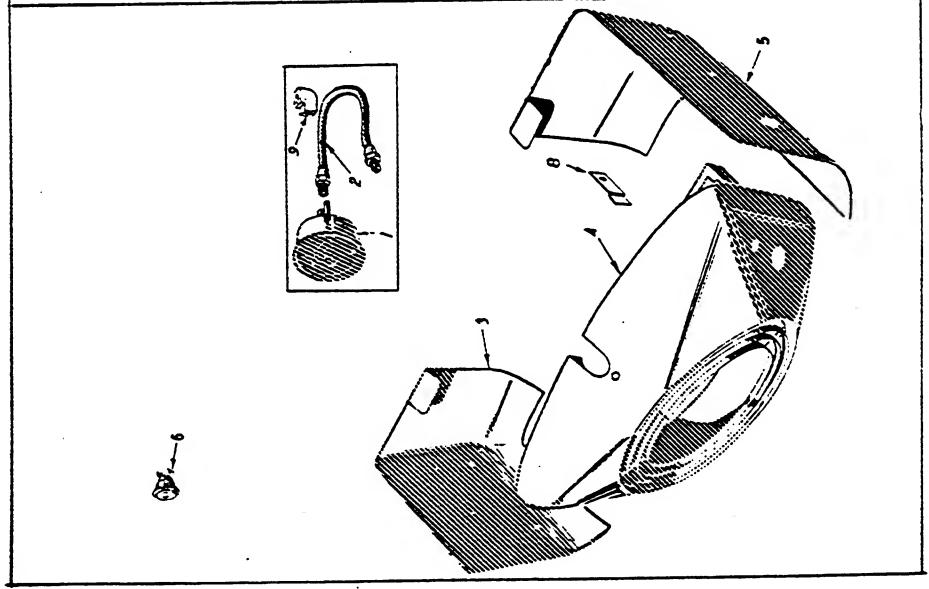


FIG. R - HOUSING GROUP



PARTS LIST

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REF. PART NO.	DESCRIPTION	QUANTITY USED					
		G	H	J	K	L	M
FIG. A - CYLINDER BLOCK, OIL BASE AND GEAR COVER GROUP (Cont.)							
13A 123B293	Cap, Breather Tube	1	1	1	1	1	1
14 123A104	Valve, Breather	1	1	1	1	1	1
15 123A620	Tube, Breather (Replaces #123B129)	1	1	1	1	1	1
16 520A123	Stud, Valve Compartment - 1/4" x 2-5/8"	2	2	2	2	2	2
17 110A666	Cover, Valve Compartment (Replaces #110A121)	2	2	2	2	2	2
18 110A667	Gasket, Valve Compartment Cover (Replaces #110A110)	2	2	2	2	2	2
19 520A95	Stud, Intake Manifold Mounting - 3/8" x 2-7/8"	2	2	2	2	2	2
20 517-8	Plug, Expansion - Rear Camshaft Bearing Opening	1	1	1	1	1	1
21 520A114	Stud, Bearing Plate Mounting - 5/16" x 1-5/16"	5	5	5	5	5	5
22 520A78	Stud, Cylinder Head Mounting - 5/16" x 1-7/8"	10	10	10	10	10	10
23 150A136	Screw, Governor Sensitivity Adjusting - Use ONLY on units WITH sensitivity screw TAB on Governor arm	1	1	1	1	1	1
24 150A678	Clip, Governor Sensitivity Adjusting - Use ONLY on Units WITHOUT sensitivity screw TAB on governor arm (Replaces either #150A309 or #150A591 Spring Clip & Stud Assemblies)	1	1	1	1	1	1
25 120A437	Line, Oil - Crankcase Internal, to rear main bearing	1	1	1	1	1	1
26 102B8	Gasket, Oil Base	1	1	1	1	1	1
27 520A119	Stud, Oil Base Mounting - 3/8" x 1-5/16"	6	6	6	6	6	6
28 502-20	Elbow, Street - Oil Line Connection	1	1	1	1	1	1
29 110A697	Gasket, Cylinder Head (Replaces #110A124)	2	2	2	2	2	2
30 110A164	Head, Cylinder - Right Hand	1	1	1	1	1	1
30 110A163	Head, Cylinder - Left Hand	1	1	1	1	1	1
31 110A244	Nut, Long - Cylinder Head	4	4	4	4	4	4
31 110A445	Nut, Reg. (5/16-24) Hardened (14) Cylinder Head, (2) Muffler, (5) Bearing Plate, (5) Gear Cover	26	26	26	26	26	26
32 520A79	Stud, Cylinder Head Mounting - 5/16" x 1-5/8"	8	8	8	8	8	8
33 102B306	Base, Oil - 4 Quart - With Indicator and Cap and Front Oil Drain (Replaces earlier base used)	1	1	1	1	1	1
34 104A91	Nut, Hex - Oil Base Mounting (3/8-24) Hardened	6	6	6	6	6	6
35 505A110	Plug, Pipe- Oil Drain (3/8")	1	1	1	1	1	1
36 509-11	*Scal, Oil - Gear Cover	1	1	1	1	1	1

WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT

PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	QUANTITY USED					
			G	H	J	K	L	M
FIG. A - CYLINDER BLOCK, OIL BASE AND GEAR COVER GROUP (Cont.)								
37	516A11	Pln, Dowel - Gear Cover Mounting	2	2	2	2	2	2
38	520A333	Stud, Gear Cover Mounting - 5/16" x 3-1/8"	1	1	1	1	1	1
39	101K181	Bearing Kit, Crankshaft - Front or Rear - Precision Type - Available In Std., .002" or .020" Undersize - Specify	2	2	2	2	2	2
40	101K115	Gasket Kit, Bearing Plate Mounting	1	1	1	1	1	1
41	509-1	Seal, Oil - Bearing Plate	1	1	1	1	1	1
42	101C258	Plate only, Bearing - EXCLUDES Bearing	1	1	1	1	1	1
43	101A49	Bearing, Camshaft - Front	1	1	1	1	1	1
44	101A50	Bearing, Camshaft - Rear	1	1	1	1	1	1
45	516-130	* Pln, Roll - Governor Cup Stop - Mounted In Gear Cover (Replaces #516-117 Pln)	1	1	1	1	1	1
46	516A72	Pln, Steel - Main Bearing	2	2	2	2	2	2
47	505-130	Plug, Pipe - Oil Fill (3/4")	2	2	2	2	2	2
48	123A491	Indicator and Cap, Oil Fill	1	1	1	1	1	1
49	123A191	Gasket, Oil Fill Cap	1	1	1	1	1	1
FIG. B - VALVE GROUP								
1	110A104	Valve, Intake	2	2	2	2	2	2
2	110A473	Valve, Exhaust - Std. (Replaces #110A288 used prior to Spec. J)	2	2	2	2	2	2
2	110A444	Valve, Exhaust - Stellite Faced - (Optional material)	2	2	2	2	2	2
3	110A176	Seat, Exhaust Valve-Std.-Available .002", .010", .025", .027"OS-Specify.	2	2	2	2	2	2
3	110A245	Seat, Exhaust Valve-Stellite-Optional material-Available .002", .010", .025", .027" Oversize - Specify	2	2	2	2	2	2
3	110A197	Seat, Intake Valve	2	2	2	2	2	2
4	110A443	Guide, Valve	4	4	4	4	4	4
5	110A68	Gasket, Valve Guide	4	4	4	4	4	4
6	110A7	Spring, Valve	4	4	4	4	4	4
7	110A6	Retainer, Valve Spring	4	4	4	4	4	4
8	110A8	Lock, Spring Retainer	8	8	8	8	8	8
9	115A6	Tappet, Valve	4	4	4	4	4	4

WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT!

PARTS LIST

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REF. NO.	PART NO.	DESCRIPTION	QUANTITY USED					
			G	H	J	K	L	M
FIG. C - CRANKSHAFT AND FLYWHEEL GROUP								
3	526A17	Washer, Flywheel Mounting	1	1	1	1	1	1
4	515-2	Key, Flywheel - Steel - Woodruff #9	1	1	1	1	1	1
4	515A112	Key, Flywheel - Aluminum	1	1	1	1	1	1
5	515-1	Key, Crankshaft Gear - Woodruff #3	1	1	1	1	1	1
7	180KG22	Flywheel, Magneto (Replaces #180D61) Includes Stator ASBY	1	1	1	1	1	1
7B	160D202	Flywheel, Magneto - Replaces 160A464	1	1	1	1	1	1
7C	160B222	Sheave, Rope - Flywheel	1	1	1	1	1	1
8	518-14	Ring, Retainer - Crankshaft Gear	1	1	1	1	1	1
9	104A43	Washer, Crankshaft Gear	1	1	1	1	1	1
10	105-72	Gear Set - Includes Crankshaft and Camshaft Gears	1	1	1	1	1	1
11	104D72	Camshaft	1	1	1	1	1	1
12	192A83	Rope and Handle, Manual Starting - Inter. with 192A16	1	1	1	1	1	1
13	104A181	Screw Set, Flywheel Mounting - Includes 2-1/2" and 4" screw	1	1	1	1	1	1
FIG. D - CAMSHAFT GROUP								
1	150A78	Ring, Snap - Center Pin	1	1	1	1	1	1
2	150B105	Cup, Governor - Includes Pin #516-71	1	1	1	1	1	1
2	150B612	Cup, Governor - No Stop Pin In Cup; Requires Pin In Gear Cover	10	10	10	10	10	10
3	510-15	Ball, Fly - Governor	1	1	1	1	1	1
4	150B85	Spacer, Flyball	1	1	1	1	1	1
5	150A77	Plate, Flyball	1	1	1	1	1	1
6	105-72	Gear Set - Includes Crankshaft and Camshaft Gears	1	1	1	1	1	1
7	105A4	Washer, Thrust - Camshaft Gear	1	1	1	1	1	1

WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT!

PARTS LIST

REF. PART NO. NO.	DESCRIPTION	QUANTITY USED					
		G	H	J	K	L	M
FIG. D - CAMSHAFT GROUP (CONT.)							
8	515-1	Key, Camshaft Gear - Woodruff #3	1	1	1	1	1
9	105-77	Camshaft - Includes Center Pln	1	1	1	1	1
10	516-71	Pln, Governor Cup - Mtd. In Cup - See Gear Cover for Later Pln	1	1	1	1	1
	150A75	Pln, Camshaft Center	1	1	1	1	1
FIG. E - PISTON AND CONNECTING ROD GROUP							
1	113A7	Ring, Compression - Standard - .010", .020", .030" Oversize Available - Specify	4	4	4	4	4
2	113A8	Ring, Oil Control, Standard - .010", .020", .030" Oversize Available - Specify	2	2	2	2	2
	113-51	Ring Set, Expander Chrome Faced-Optional-Standard, .010", .020", .030" Oversize - Specify	2	2	2	2	2
3	112-33	Piston, with Pln - Standard - .005", .010", .020", .030", Oversize Available - Specify	2	2	2	2	2
4	112A10	Pln, Piston - Standard - .002" - .005" Oversize Available - Specify	2	2	2	2	2
5	112A3	Ring, Lock - Piston Pln	4	4	4	4	4
6	114B9	Rod, Connecting - Standard - .020" Undersize Avail. - Specify - Prior Serial #409955	2	2	2	2	2
6	114B45	▲Rod, Connecting - Standard .020" Undersize Avail. - Specify - Begin with Serial #409955. Use only with 112-33 Piston	2	2	2	2	2
7	113-11	Ring Set, Piston - Standard - Available in .010", .020", .030" Oversize - Specify (Use Standard size rings on .005 Oversize Piston). Screw, Connecting Rod Cap Replaces #114A10	2	2	2	2	2
8	110A284	Washer, Lock - Connecting Rod Screw	4	4	4	4	4
9	114A59		4	4	4	4	4

(▲) - 114B9 is furnished if 114B45 is requested and serial number is not known.
WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT!

PARTS LIST

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REF. PART NO.	DESCRIPTION	QUANTITY USED						
		G	H	J	K	L	M	N
1 1A	145A48 Inlet, Carburetor Air - Metal 145A80 Inlet, Carburetor Air - Rubber	1	1	1	1	1	1	1
2	503-280 Clamp, Air Cleaner Hose - Replaces #503-23	2	2	2	3	3	3	3
3	503A37 Hose, Air Cleaner	1	1	1	1	1	1	1
3A	503A117 Hose, Air Cleaner	1	1	1	1	1	1	1
3A	503A281 Hose, Air Cleaner - NOTE: Hose 503A117 will work if shortened.	1	1	1	1	1	1	1
3B	140A211 Sleeve, Air Cleaner Hose	1	1	1	1	1	1	1
4	503A19 Clamp, Air Inlet	1	1	1	1	1	1	1
4	503-107 Clamp, Air Inlet	1	1	1	1	1	1	1
5	502-2 Elbow, Inverted Male - Fuel Pump	1	1	1	1	1	1	1
6	142A57 Carburetor	1	1	1	1	1	1	1
7	155A243 Muffler, Exhaust - Special Paint Finish - Replaces 155C70	1	1	1	1	1	1	1
8	140C79 Cleaner, Air - Includes Metal Cup & Rain Shield - Replaces 140C50	1	1	1	1	1	1	1
9	15A22 Gasket, Muffler	2	2	2	2	2	2	2
10	141A78 Gasket, Carburetor Mounting (Replaces 145A43)	1	1	1	1	1	1	1
11	149A174 Line, Fuel - Pump to Filter	1	1	1	1	1	1	1
12	154C18 Manifold, Intake - Without provision for Speed Booster	1	1	1	1	1	1	1
12	154C241 Manifold, Intake - With provision for Speed Booster	2	2	2	2	2	2	2
13	154A13 Gasket, Intake Manifold	1	1	1	1	1	1	1
14	149D693 Pump, Fuel - with Priming Lever - Replaces any earlier pump used.	1	1	1	1	1	1	1
15	149A45 Spacer, Fuel Pump Mounting	1	1	1	1	1	1	1
16	149A3 Gasket, Fuel Pump Mounting	2	2	2	2	2	2	2
17	502-3 Connector, Inverted - Fuel Line to Pump	1	1	1	1	1	1	1
18	140K403 Cup Kit, Air Cleaner - Incl. Screen & Screw - Repl. Plastic Cup	1	1	1	1	1	1	1
19	140-68 Screen, Air Cleaner Cup	1	1	1	1	1	1	1
20	149A648 Rod, Primer - Fuel Pump - Begin with Serial #458109 (Repl.#149A271)	1	1	1	1	1	1	1

WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT!

PARTS LIST

REF. PART NO.	DESCRIPTION	QUANTITY USED					
		G	H	J	K	L	M
FIG. F - FUEL SYSTEM GROUP (CONT.)							
21	505-61 Nipple, Pipe - Filter to Carburetor - 1/8"x2"	1	1	1	1	1	1
22	149-79 Filter, Fuel - (Replaces 149-180)	1	1	1	1	1	1
23	149-150 Bowl, Fuel Filter	1	1	1	1	1	1
24	149-149 Gasket, Fuel Filter	1	1	1	1	1	1
25	114A42 Screw, Hex Head Cap - Hardened - 5/16-24x1-1/4" - Muffler Mounting	2	2	2	2	2	2
26	159B114 Tank, Fuel - 2 U.S. Gallon For Rear Mounting	1	1	1	1	1	1
27	159A7 Cap Assembly, Fuel Tank - Replaces #159A80	1	1	1	1	1	1
28	159C112 Bracket, Fuel Tank , Left Hand	1	1	1	1	1	1
29	159C113 Bracket, Fuel Tank, Right Hand	1	1	1	1	1	1
30	159A116 Strap, Tank Retaining	2	2	2	2	2	2
31	159A117 Brace, Tank	1	1	1	1	1	1
32	501A32 Line, Flex, Fuel	1	1	1	1	1	1
33	520A330 Stud, Fuel Tank Mounting	1	1	1	1	1	1
34	504-7 Valve, Fuel Shutoff	1	1	1	1	1	1
35	149A247 Strainer Assembly, Fuel- Tank Outlet	1	1	1	1	1	1
If fuel pump with priming feature is desired for engines prior to Serial # 458109, order 149D693 pump and 149A648 priming rod.							
FIG. G - CARBURETOR PARTS GROUP							
142A57	Carburetor Assembly	1	1	1	1	1	1
142-33	*Gasket Kit, Carburetor	1	1	1	1	1	1
142K295	Repair Kit, Carburetor - Includes Parts Marked (*)	1	1	1	1	1	1
815-109	Screw, Bowl Cover - #10-24 x 5/8"	2	2	2	2	2	2
815-103	Screw, Bowl Cover - #10-24 x 1/2"	1	1	1	1	1	1
815-91	*Screw, Choke Valve Plate - Replaces #142-28	2	2	2	2	2	2
142-55	Plate, Choke Valve	1	1	1	1	1	1
142-205	Cover, Bowl - Order Complete Carburetor	1	1	1	1	1	1

WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT!

PARTS LIST

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REF. PART NO.	DESCRIPTION	QUANTITY USED					
		G	H	J	K	L	M
FIG. G - CARBURETOR PARTS GROUP (CONT.)							
5	142-217	Shaft, Choke	1	1	1	1	1
6	142-39	*Shaft, Float	1	1	1	1	1
7	142-31	Gasket, Bowl Cover	1	1	1	1	1
8	148A17	Gasket, Fuel Valve or Main Adj. Retainer	2	2	2	2	2
9	142-49	*Valve, Fuel	1	1	1	1	1
10	142-32	Gasket, Nozzle	1	1	1	1	1
11	142-285	Nozzle - Replaces #142-289	1	1	1	1	1
12	142-380 ⁵⁶ /	Float	1	1	1	1	1
13	145A8	*Lever, Throttle Stop	1	1	1	1	1
14	142-40	*Needle, Idle Adj.	1	1	1	1	1
15	142-282	Spring, Idle Needle	1	1	1	1	1
16	142A35	Spring, Throttle Stop Screw	1	1	1	1	1
17	812-65	*Screw, Throttle Stop - #6-32x5/8"	1	1	1	1	1
18	815-72	Screw, Throttle Plate - Replaces #142-281	2	2	2	2	2
19	142-25	Plate, Throttle Valve	1	1	1	1	1
20	142A368	*Shaft, Throttle - Replaces #142A260	1	1	1	1	1
21	142-290	Nut - Jet, Use Only with 142-285	1	1	1	1	1
21, 11	142-309	Nozzle Assembly - Includes 142-285 and 142-290	1	1	1	1	1
22	142-46	Retainer, Main Adj. Needle	1	1	1	1	1
23	142-206	Packing, Main Adj. Needle	1	1	1	1	1
24	142-45	Retainer, Packing	1	1	1	1	1
25	516A27	Pin, Main Adj. Needle	1	1	1	1	1
26	142-41	*Needle, Main Adj. - Includes Pin	1	1	1	1	1
27		Bowl - Order Complete Carburetor	1	1	1	1	1
28	506-53	Plug, Fuel Inlet Boss	1	1	1	1	1
29	142-343	Bushing, Ollite - Throttle Shaft	1	2	2	2	2

WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT!

PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	QUANTITY USED							
			G	H	J	K	L	M	N	
Various # 149D693	Pump, Fuel - AC mfr.; BLAKING mfr., with primer lever - Replaces earlier style Pump, Fuel - ONAN mfr., with primer lever - Replaces earlier style pumps used, of any manufacturer.....	1	1	1	1	1	1	1	1	1
149K526	Repair Kit, Fuel Pump - Includes parts marked (*) - For ONAN mfr. or BLAKING mfr. pumps only - If not available, or if pump mfr. is not known, then use 149K74	1	1	1	1	1	1	1	1	1
149K74	Repair Kit, Fuel Pump - Includes parts marked (*) and ▲) - For AC mfr., BLAKING mfr., or ONAN mfr. pumps	1	1	1	1	x	x	x	x	x
1	Body, Upper - Not Sold Separately	x	x	x	x	x	x	x	x	x
2	Screw, Body - #8-32 x 7/8"	4	4	4	4	4	4	4	4	4
3	Screw, Valve Retainer - #6-32 x 5/8" - ONAN mfr. pump only	1	1	1	1	1	1	1	1	1
3A	Screw, Valve Retainer - AC mfr. pump only	1	1	1	1	1	1	1	1	1
3B	Screw, Valve Retainer - BLAKING mfr. pump only - #8-32 x 7/16"	2	2	2	2	2	2	2	2	2
4	*Valve and Cage - BLAKING mfr. & ONAN mfr. pump	2	2	2	2	2	2	2	2	2
4A	▲ Valve Parts - AC mfr. - Use Kit #149K74	x	x	x	x	x	x	x	x	x
5	*Gasket, Valve - BLAKING mfr. & ONAN mfr. pump	2	2	2	2	2	2	2	2	2
6	*Diaphragm Assembly	1	1	1	1	1	1	1	1	1
7	*Spring, Diaphragm - Replaces #149A93	1	1	1	1	1	1	1	1	1
8	149A539	Retainer - Valve Cage - ONAN & BLAKING mfr. pump only	1	1	1	1	1	1	1	1
8	149-243	Retainer, Valve - AC Mfr.	1	1	1	1	1	1	1	1
8A	*Gasket - Spacer - BLAKING mfr. pump only	2	2	2	2	2	2	2	2	2
9	149A675	*Spring, Rocker Arm - Replaces #149A94	1	1	1	1	1	1	1	1
10	516A113	Pin, Rocker Arm	x	x	x	x	x	x	x	x
11	Body, Lower - Not Sold Separately	x	x	x	x	x	x	x	x	x
12	Ring, "E" Retainer - Primer Lever Shaft - ONAN mfr. pump only	1	1	1	1	1	1	1	1	1
13	Arm & Link Set, Rocker - Sold only as a set	1	1	1	1	1	1	1	1	1
14	149A551	Lever, Hand Primer - ONAN mfr. pump only	1	1	1	1	1	1	1	1
15	509-65	Seal, "O" Ring - ONAN mfr. pump only	2	2	2	2	2	2	2	2
16	149A404	Spring, Priming Lever Return - ONAN mfr. pump	2	2	2	2	2	2	2	2
17	149A3	*Gasket, Fuel Pump Mounting	2	2	2	2	2	2	2	2

NOTE: Manufacturer appears on pump for identification. After installing a new fuel pump on an earlier engine, select parts by pump mfr. (manufacturer) rather than by the quantity used column.

PARTS LIST

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REF. NO.	PART NO.	DESCRIPTION	QUANTITY USED					
			G	H	J	K	L	M
FIG. N - OIL PUMP GROUP								
		NOTE: Larger Intake Cup plus corresponding Oil Pump will fit earlier engines.						
1	120A200	Pump, Oil - With 1/8" pipe tap	1	1	1	1	1	1
1	120A491	Pump, Oil - With 1/4" pipe tap - Replaces #120A394	1	1	1	1	1	1
2	120A88	Cup, Oil Pump Intake - With 1/8" pipe thread	1	1	1	1	1	1
2	120B400	Cup, Oil Pump Intake - With 1/4" pipe thread	1	1	1	1	1	1
3	120A187	Stud and Nut, Oil Pressure Adjusting	1	1	1	1	1	1
4	120A140	Spring, By-Pass Valve	1	1	1	1	1	1
5	120A398	Valve, By-Pass - Replaces 120A12	1	1	1	1	1	1
6	120A192	Gasket, Oil Pump Mounting	1	1	1	1	1	1
FIG. O - IGNITION GROUP								
1	160A152	Cover, Breaker Box	1	1	1	1	1	1
2	160A150	Gasket, Breaker Box Cover	1	1	1	1	1	1
3	160A75	Cam, Point Adjusting	1	1	1	1	1	1
4	160A2	Point Set, Breaker	1	1	1	1	1	1
5	336A515	Lead, Coll to Breaker Box	1	1	1	1	1	1
6	312A19	Condenser, Ignition - 0.5 Mid	1	1	1	1	1	1
6	312A69	Condenser, Ignition - 0.3 Mid	1	1	1	1	1	1
8	160A43	Gasket, Breaker Box Mounting	1	1	1	1	1	1
9	508-5	Grommet, Spark Plug Cable	2	2	2	2	2	2
10	160A262	Plunger, Breaker Box - Includes Diaphragm and Guide	1	1	1	1	1	1
11	167A1097	Cable, Spark Plug - Right Hand - 9"	1	1	1	1	1	1
12	166B268	Coll, Ignition - 6 Volt, for mounting in blower housing - Repl. #168-91	2	2	2	2	2	2
13	167A1071	Cable, Spark Plug - Left Hand - 7" - Replaces #167A1098	1	1	1	1	1	1
14	160A58	Stator, Magneto - Includes Coll, Pole Shoe, and Lead Coll, Magneto	1	1	1	1	1	1
14A	160A282	Pole Shoe, Magneto						
14B	160A281	Stator Assembly, Magneto - order component parts						
14C	162A196	Plug, Spark	2	2	2	2	2	2
15	167-28	Box Assembly, Breaker - Complete						
16	160B250	Box Assembly, Breaker - Complete						
16	160A257							

WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT!

PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	QUANTITY USED						
			G	H	J	K	L	M	N
FIG. O - IGNITION GROUP (CONT.)									
17	166A104	Clamp, Ignition Coil - prior to serial #420327.....		2	2			2	2
17	166A141	Clamp, Ignition Coil - Begin with Serial #420327 - Requires Slot In Housing		2	2	2	2	2	2
18	160A558	Nipple, Spark Plug Cable - Replaces #108-105		2	2	2	2	2	2
19	503-92	Sleeve, Coll to Coll Lead		1	1	1	1	1	1
20	336A481	Lead, Coll Ground		1	1	1	1	1	1
21	336A500	Lead, Coll to Coll		1	1	1	1	1	1
22	160A428	Strap, Point Terminal to Box Terminal - In Brkr Box - Repl. Lead Block and Terminal Assembly, Breaker Box		1	1	1	1	1	1
23	160A349	Clip, Magneto Lead		1	1	1	1	1	1
24	332A273	Lead, Magneto Stator to Breaker Box		1	1	1	1	1	1
26	336A521	Lead, Breaker Box Ground		1	1	1	1	1	1
27	336A439	Lead, Stop Button		1	1	1	1	1	1
30	336A491	Wick, Oil Drain - Breaker Box		1	1	1	1	1	1
31	160A261	Grommet, Magneto Lead Clip		1	1	1	1	1	1
32	508-2	Screw, Condenser Mounting -#8-32 x 1/4 SEMS #SD-3061		1	1	1	1	1	1
33	518-49	Cable, Spark Plug - Long - 12 Volt Coll to Left Hand or #1 Plug		1	1	1	1	1	1
34	167A1071	Cable, Spark Plug - Short - 12 Volt Coll to Right Hand or							
35	167A1072	#2 Plug		1	1	1	1	1	1
36	336A388	Lead, 12 Volt Coll to Ground		1	1	1	1	1	1
37	160B86	Coll, Ignition - 12 Volt		1	1	1	1	1	1
38	509-20	"O" Ring - Spark Plug Cable at 12 Volt Coll - 3/8" O.D. x 1/16"		2	2	2	2	2	2
39	226A166	Lead, Stator to 12 Volt Coll		1	1	1	1	1	1
40	160B154	Box Assembly, Breaker - Dustproof but not diaphragm type - Use #160B250 - Prior to Spec. J		1	1	1	1	1	1
41	336A374	Lead, Coll to Breaker Point Terminal		1	1	1	1	1	1
42	508-27	Grommet, Coll to Breaker Point Terminal Lead		1	1	1	1	1	1
43	160A36	Plunger, Ignition Breaker - No spacer and no diaphragm, type		1	1	1	1	1	1

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PARTS LIST

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REF. PART NO.	DESCRIPTION	QUANTITY USED					
		G	H	J	K	L	M
FIG. P - GOVERNOR GROUP							
1	150A136 Screw, Governor Sensitivity Adjusting - Use ONLY on units WITH sensitivity screw TAB on governor arm (Listed also in Fig. A Grouping)	1	1	1			
1A	150A878 Clip, Governor Sensitivity Adjusting - Use ONLY on units WITHOUT sensitivity screw TAB on governor arm (Replace either #150A309 or #150A591 Spring Clip and Stud Assemblies) Listed also in Fig. A Grouping						
2	150A115 Spring, Governor	1	1	1	1	1	1
3	150A96 Stud, Governor Spring Tension Adjusting (#10-32 thrd) Not used on certain early units	1	1	1	1	1	1
4	150A639 Joint, Ball - Governor Link (Replaces either #150A29, #150-128 or #150A300 Ball Joint)	1	1	1	1	1	1
5	150A629 Link, Governor to Carburetor (Note: If old link fastens by a cotter pin, use also Clip #518-6)	1	1	1	1	1	1
6	518-6 Clip, End - Governor to Carburetor Link (Replaces Cotter Pin #516-36).	1	1	1	1	1	1
FIG. Q - VARIABLE SPEED GOVERNOR GROUP							
150C314	Control Assembly, Governor - Variable Speed - Complete (Replaces #150C165 Assembly used for Columns G and H)	1	1	1	1	1	1
1	518-4 Clip, Rod End	1	1	1	1	1	1
2	150A167 Arm Assembly, Pivot - Includes Mounting Bracket	1	1	1	1	1	1
3	152B39 Throttle Assembly, Hand - Prior to Spec H - Use #152B45	1	1	1	1	1	1
3A	152B45 Variable Speed and Quadrant Assembly - Includes parts marked (†) plus hardware	1	1	1	1	1	1
4	150A176 Rod	1	1	1	1	1	1
6	152A44 †Quadrant	1	1	1	1	1	1

WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT!

PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	QUANTITY USED					
			G	H	J	K	L	M
FIG. Q - VARIABLE SPEED GOVERNOR GROUP (Cont.)								
6	152A34	Lever, Throttle - Without provision for locking position - Order Lever #152A34, Stud and Bracket #152A70 and Nut #865-11	1	1	1	1	1	1
7	153A70	† Lever, Throttle - With provision for locking position	1	1	1	1	1	1
8	153A71	Lever, Choke	1	1	1	1	1	1
9	152A35	† Link, Choke	1	1	1	1	1	1
10	620A33	† Bracket, Lever	1	1	1	1	1	1
11	152A41	Stud, Gear Cover to Crankcase	1	1	1	1	1	1
12	152A70	† Washer, Tension - Lever Assembly	2	2	2	2	2	2
13	865-11	† Stud and Bracket - Throttle Lever Locking	2	2	2	2	2	2
		† Nut, Whg - Throttle Lever Locking (Replaces #871-74)	1	1	1	1	1	1
FIG. R - HOUSING GROUP								
1	193P68	Gauge, Oil Pressure - with Plastic Face Shield - Includes Clamp (Replaces 193-5)	1	1	1	1	1	1
2	504-4	Line, Oil	1	1	1	1	1	1
3	134C156	Housing, Cylinder Air - Left Hand - Replaces #134C30	1	1	1	1	1	1
4	134E178	Housing, Blower	1	1	1	1	1	1
4	134D155	Housing, Blower - Replaces #134D24	1	1	1	1	1	1
5	134C157	Housing, Cylinder Air - Right Hand - Replaces #134C31	1	1	1	1	1	1
6	313-18	Button, Stop - Less Lead	1	1	1	1	1	1
8	134A59	Clip, Air Housing	1	1	1	1	1	1
9	902-5	Elbow, Inverted Female - Oil Gauge	1	1	1	1	1	1
	313-8	Button, Stop - Replaces #313-11	1	1	1	1	1	1
FIG. S - VACUUM SPEED-BOOSTER GROUP								
	150K433	Kit, Booster Replacement - Complete with external spring and mounting gasket	1	1	1	1	1	1
1	150A430	Bracket, Spring to Governor Link	1	1	1	1	1	1
2	150K434	Kit, Diaphragm Replacement - Includes gaskets	1	1	1	1	1	1
3	150A668	Diaphragm Plate - Replaces #150A374...	1	1	1	1	1	1

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PARTS LIST

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REF. NO.	PART NO.	DESCRIPTION	QUANTITY USED					
			G	H	J	K	L	M
FIG. S. - VACUUM SPEED-BOOSTER GROUP (CONT.)								
4	150A425	Gasket, Neoprene - Booster to Manifold						
5	150A366	Spring - Internal or External	1	1	1			
6	150A376	Bracket, Internal Spring Adjusting	2	2	2			
7	616-39	Pln, Cotter - 3/32"x5/8" - Adjusting Bracket	1	1	1			
8	150A666	Plate, Diaphragm - Replaces #150A373	1	1	1			
9	516-85	Pln, Roll - 3/32x3/4" - Diaphragm Lever Pivot	1	1	1			
SERVICE KITS								
101K181	Kit, Main Bearing Replacement - Precision Type - Includes Stop Pln - Available In: Standard Size; .002" Undersize, for worn engines; or .020" Undersize for re-machined crankshaft bearing Journal. Please Specify Size!							
101K115	Kit, Rear Bearing Plate Gasket	2	2	2	2	2	2	2
168K29	Kit, Engine Gasket	1	1	1	1	1	1	1
522K72	Kit, Overhaul	1	1	1	1	1	1	1
149K74	Kit, Fuel Pump Repair Parts - For AC, Blaking, or Onan Mfr. Pump	1	1	1	1	x	x	x
149K526	Kit, Fuel Pump Repair Parts - For Blaking or Onan Mfr. Pump Only - If not available, use Kit 149K74..	1	1	1	1	1	1	1
142-33	Kit, Carburetor Gasket	1	1	1	1	1	1	1
142K295	Kit, Carburetor Repair parts	1	1	1	1	1	1	1

WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT!

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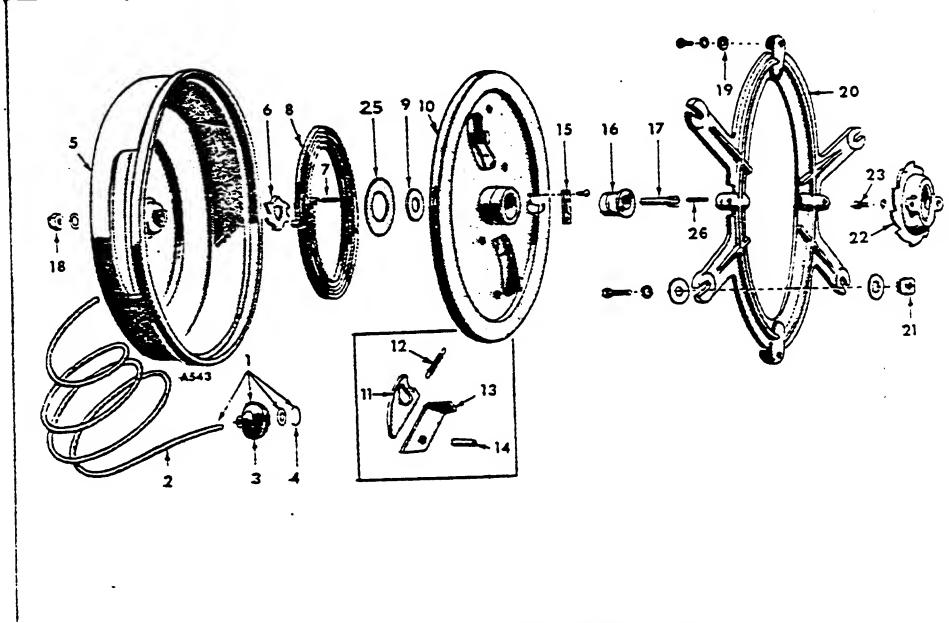


FIG.T READI-PULL STARTER GROUP (MODEL D)

REF. NO.	PART NO.	DESCRIPTION	QTY
FIG. T - READI-PULL STARTER GROUP (MODEL D) - OPTIONAL			
192K215	Kit, Complete Model "D" Starter - Includes Mounting Ring and Ratchet		
1	192A45	Wheel	1
2	192-43	Rope Only. Starter - #7 Nylon x 83" Long	1
3	192A44	Grip Only. Ball - Rubber	1
4	517A25	Plug Starter Rope Grip	1
5	192B152	Cover, Starter	1
6	192A153	Wheel, Cog - Anti-Backlash	1
7	516-83	Pin, Roll - 3/16" x 5/8" - Recoil Spring	1
8	192A39	Spring, Recoil	1
9	526A123	Washer, Thrust - Sheave Bushing to Cover	1
10	192B180	Sheave Assembly, Rope - Includes parts marked * plus hardware	1
11	192A172	*Pawl	2
12	192A165	*Spring, Pawl	2
13	192A168	*Arm, Ratchet	2
14	516A110	*Pin, Roll - 5/16 x 1/2 - (2) Arm Pivot, (2) Pawl Pivot	4
15	192A167	*Clamp, Rope	1
16	192A163	Bearing, Sheave Hub - Bronze	1
17	192A323	Capscrew, Socket Head - 3/18-16 x 1-1/2" - Sheave Bushing to Cover	1
18	870-138	Nut, Flexlock - Bushing to Cover Screw	1
19	526A21	Washer - Starter to Mounting Ring - Replaces 192A185	4
20	192C186	Ring, Mounting - Starter to Blower Housing	1
21	870-110	Nut, Speed Grip - Starter Ring to Blower Housing	4
22	192A170	Wheel, Ratchet	1
23	192A218	Capscrew, Socket Head - Ratchet Wheel to Flywheel - 3/8-16 x 5/8" with provision for starter installation alignment	2
24	815-137	*Screw, Rope Clamp Mounting	2
25	526A168	Washer, Spring Retainer (Used on Later Model Starters)	1
26	516-132	Pin, Spirol Starter Locating (Used on Later Model Starters)	1